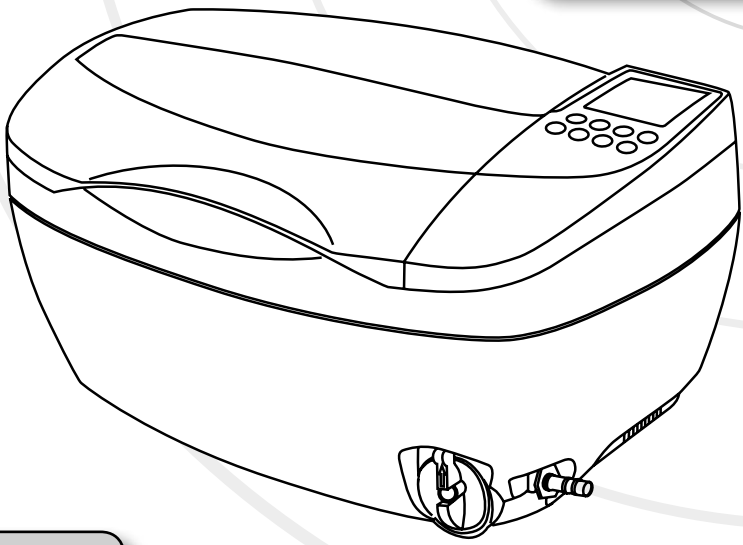
James PRODUCTS

# ULTRA 8060
## Professional Ultrasonic Cleaner

## User Manual



## Features

| | |
|---|---|
| **Large stainless steel tank** | Tank Capacity: 3000 ml<br>Tank Dimension: 25.0cm X 17.4cm x 7.8cm |
| **Drainage valve** | Easy to empty the tank, without having to move the unit. |
| **Industrial grade ultrasonic transducer** | Provides uniform distribution of ultrasonic waves, enhancing cleaning |
| **Ceramic heater** | Mounted underneath the bottom of the tank for safe and even heating; more durability construction |
| **Colour LED display** | Clear display with 1 to 30-minute full range timer, temperature settings and operation status |
| **Cooling fan** | Ensures prolonged operation. Improves heat dissipation and beneficial for continuous operations |
| **Overheat Protector** | Built in overheating safety protection |
| **Moisture-proofed PCB** | Offers dependable use in multiple working enviroments |
| **Degas feature** | Removes air bubbles and increases cleaning power |
| **Detachable power cord** | Conveinient for refilling, moving and storage |
| **Professional grade plastics** | Toughened resins, ideal for bench & laboratory users |

# INTRODUCTION

## Use tap water. Special solutions are not necessary in most cases.

**Principles of ultrasonic cleaning:**
Millions of tiny air bubbles are generated within liquid by high frequency vibration. The air bubbles burst when in contact with object and dislodge the debris to achieve the cleaning effect.

- Using tap water is sufficient. Purified water or distilled water has the same cleaning effect as regular tap water for ultrasonic cleaning.
- When cleaning silver or copper items where oxidation has darkened the items, special solutions such as SeaClean2, needs to be added to the water to remove the oxidation.


sea clean2

DOUBLE STRENGTH CONCENTRATE

Made from a unique formula containing natural products, mixing carefully balanced quantities of seaweed, coconut oils and fruit extracts to create a powerful cleaning solution.

SeaClean2 will expertly clean tarnished items and assist in the removal of carbon, rust and dirt from most solid metals*, precious stones* and inkjet cartridges to return them to a shiny condition.

**Available in 500ml, 1L, 5L and 25L bottles.**

* Please refer to our website for exclusions.


## Read the Manual First

The manual should be carefully reviewed before starting to use the device.
Warnings should be observed carefully. Please follow the manual for operations.

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# SAFETY PRECAUTIONS

## Keep it away from children!

This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are aged 8 years and above and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years.

- Please store the ultrasonic cleaner where it is inaccessible by children.
- Danger to children! Danger for death through suffocation! Keep packaging material away from children.
- This appliance should not be used by children. Keep the appliance and its cord out of reach of children.

## To prevent life-threatening electrical shock, please observe the following:

**Danger of electrical shock!** Do not use while bathing. Never immerse the device or the power cord in water or other liquid.

- **Danger of electrical shock!** Never touch the power plug with wet hands, especially when inserting or removing the plug.
- **Danger of electrical shock!** If the unit has fallen into water during operation, do not touch the unit. Remove the power plug from the socket first.
- **Danger of electrical shock!** Do not spray water or liquid over the device.
- Never operate the device unattended.
- Follow the manual to operate the device.
- Do not use components unapproved by the manufacturer.
- When removing the power cord from the socket, grab the power plug not the cord.
- To protect the power cord from damage, do not cause it to get caught by things such as cupboard door or a chair leg; do not drag across a hot surface.
- If there is damage to the power plug, cord, housing, or other parts of the device, do not use the device.
- Do not disassemble the device, except by professionals.
- If the unit is damaged, non-operational or has fallen into water, take it to a qualified service provider.
- Remove the power plug from the socket:

  -if malfunction occurs

  -before cleaning the device

  -if the device is not going to be used for prolonged period

  -after each use (recommended)
- The installation of an earth leakage circuit breaker with a rated tripping current of no more than 30 mA provides further protection against an electrical shock. The installation should only be carried out by a trained electrician.

## To prevent fire hazards, please observe the following:

- Never block the vents on the device. Keep the vents free from lint, hair and other materials.
- Do not place the device on a soft surface, such as a bed or a couch, where the vents could be blocked.
- Observe the other warnings in the previous section.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

# SAFETY PRECAUTIONS

**Other observations:**

- Do not operate the product without filling the tank with water. Running dry will damage the unit.
- Do not plug in the power cord before adding water to the tank. To avoid overspill, do not fill the tank above the 'Max' line.
- Do not use solution containing abrasive substances or strong corrosive chemical solution not recommended by the manufacturer or the supplier. The use of any fluid, such as Acids, Amonia or Alcohol, which can damage stainless steel or plastics should be avoided. The use of such solutions will invalidate your warranty unless you have prior written approval from JPL.
- Place the device on a dry and flat surface for operation.
- When the device is subjected to severe electromagnetic interference, it may malfunction, stop operating or lose control functions. If this happens, unplug the power cord then re-insert it to restart the device.

# IMPORTANT SAFETY INSTRUCTIONS

**When using electric appliances, basic precautions should always be followed:**

- Read all the instructions before using the appliance.
- To reduce the risk of injury, close supervision is necessary when an appliance is used near children.
- Only use attachments recommended or sold by the manufacturer.
- Do not use outdoors.
- To disconnect, turn all controls to the off (O) position, then remove plug from outlet. To unplug, grasp the plug, not the cord. Unplug from outlet when not in use and before servicing or cleaning.
- To reduce the risk of electrical shock, do not put the appliance in water or other liquid. Do not place or store appliance where it can fall or be pulled into a tub or sink.
- All servicing of this product, including transducer replacement, is to be conducted by qualified service personnel.
- Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions or is dropped or damaged in any manner.
- Return appliance to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.

# Items Not Suitable for Ultrasonic Cleaning

| | |
|---|---|
| **Soft or Porous Jewellery:**<br>Pearls, emerald, ivory, coral, agate, sea turtle shells, etc | These items are not hard, so scratches may occur during cleaning. |
| **Welded, Plated and Glued Items:**<br>Welded or plated metal items, glued items | Ultrasonic cleaning may enlarge the gaps inside the welded joints, plated coating or glued items and may cause separation. |
| **Watches:**<br>Except diver's watches with depth rating over 50 m (150 ft) | Because the strong penetration capability of the ultrasonic waves, water may get into the watches if they are not truly waterproof. Use the watch stand supplied as a precaution if not sure. |
| **Others:**<br>Wood; coated glass, ceramic, camera filters with pre-existing cracks. | Ultrasonic cleaning may enlarge the cracks pre-existed in the coating on the glasses, ceramic, and glass. If the items have no pre-existing cracks, then it is okay. |

# APPLICATIONS

**1. Metal Processing Manufacturers and Jewellery Makers:**
- With warm 45°-50° tap water and SeaClean2, ultrasonic cleaning can remove grease or abrasive powder from work-in-process metal items and keep them clean.
- Jewellery made with investment casting often has wax layer in addition to debris. Turning on the heater will raise the water temperature, melt the wax and improve the cleaning. If in doubt, contact your supplier prior to use.

**2. Optical Labs:**
During edging and polishing, debris and abrasives can scratch lenses. Ultrasonic cleaning can effectively protect the lenses. Debris exists in the crevices of the frames during processing and polishing. Using an ultrasonic cleaner and tap water can easily remove the debris.

**3. Biology, Chemical Laboratories:**
Labs can use ultrasonic cleaners to clean test tubes and other glass or metal containers to remove residual chemicals and debris that can affect the accuracy of the test results.

**4. Medical Instrument Disinfection Rooms:**
Non-disposable medical instruments may have blood or organic tissues left after use. They need to be removed with ultrasonic cleaners before disinfection.

**5. Dental Clinics:**
Dental clinics can use ultrasonic cleaners to clean dental instruments and to remove blood and small particles left on the instruments before disinfection.

**6. Electrical Component Manufacturers:**
Terminals on AC contactors and relays need to be kept clean to prevent sparking and non-contact. Ultrasonic cleaning is the most effective method to keep these parts clean.

# APPLICATIONS

**7. Watch and Precision Metal Part Manufacturers:**
Machined watch components and other precision metal parts often have coolant and debris left on the surfaces. Ultrasonic cleaning can remove the debris and keep the parts clean.

**8. Shooting Clubs**
*To reuse brass cartridges:* Adding special solution such as SeaClean2 solution can make fired brass casings useable and like new again.
*Gun cleaning and care:* Cleaning guns after shooting is time consuming. Using SeaClean2 solution in the water and using ultrasonic cleaners can complete the cleaning better, quicker and easier than traditional methods.

**9. Special Education Institutes / Kindergartens:**
Speech therapy tools or small toys that are reused need to be cleaned to prevent the growth and spread of bacteria. Ultrasonic cleaning can perform thorough cleaning by removing debris hidden inside small holes and crevices before disinfection.

**10. Golf Clubs:**
Cleaning the heads of golf clubs is a time consuming job. Using ultrasonic cleaning with the **Enhanced Cleaning** method can improve the effectiveness and efficiency.

**11. Mobile Phone and Electronics Service Shops**
*PCB renewal:* Non-operational electronics, after falling into water, or non-operational key pads can be cleaned with ultrasonic cleaners and pure alcohol to recover the functions. Use the Indirect Cleaning method for small-sized PCBs.

# APPLICATIONS

**12. Homes:**

*Silverware, silver, copper or brass decorations:* It's difficult to clean debris hidden in the patterns with regular methods. Ultrasonic cleaning with 50ml (3 tablespoons) of detergent or SeaClean2 will clean the debris quickly. For silver, copper or brass items with oxidation which has darkened the items, adding small amount of SeaClean2 solution can help to remove oxidation and using ultrasonic cleaning will restore the shine.
*Children or baby items:* Debris left in the small holes and crevices are difficult to clean. Bacteria and molds can grow. Using an ultrasonic cleaner will deep clean the items before disinfection.
*Crystal glasses and decorations, chandeliers:* Ultrasonic cleaning can bring back the sparkles and make them look like new again.
*Jewellery, eyewear, watch bands, shavers or razors:* Ultrasonic cleaning can clean the debris in the crevices. It is quick and convenient.

**This model has a large tank. When cleaning small items, the Indirect Cleaning method can be used with satisfactory results. Smaller ultrasonic cleaners can also do the job.**

**13. Printing Shops**

*Unblocking dried printer heads or ink cartridges:* Large printers and inkjet printers often have dried printer heads or ink cartridge ports. Replacing them with new ones is very costly. Adding acetone or SeaClean2 and using an ultrasonic cleaner with a couple of minutes of cleaning will remove the blockage and make them usable again.

**Avoid acetone from contacting the plastic housing to prevent corrosion. Use Indirect Cleaning explained later and a glass or metal container for acetone.**

**14. Automotive Repair Shops:**

The **Enhanced Cleaning** method can be used to clean precision parts such as valves, injectors, gears and bearings. It cleans out debris in tiny holes and crevices effectively.

# SAMPLE APPLICATIONS

**JEWELLERY**

Necklaces, rings, earrings, bracelets, etc.

**PERSONAL ITEMS**

Eyeglasses, sunglasses, shaver heads, watch bands, diver's watches, dentures, etc.

**MEDICAL / DENTAL**

Surgical instruments, pliers, handpieces, etc.

**PRECISION PARTS**

Bearings, gears, valves, tools, fuel injectors, etc.

**SILVER, COPPER OR BRASS**

Silverware, silver, copper or brass decorations, etc.

**BABY ITEMS**

Toys, baby items, speech therapy tools, etc.

**LAB ITEMS**

Test tubes, beakers, flasks, etc.

**BRASS, GUN PARTS**

Reusable brass, gun parts, etc.

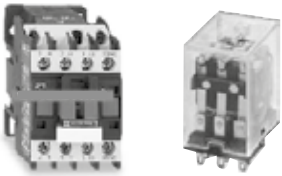
**PCB, INKJET CARTRIDGES**

PCBs from mobile phones and MP4, ink cartridges, etc.

**GOLF CLUBS**

Golf clubs and golf balls

**ELECTRICAL PARTS**

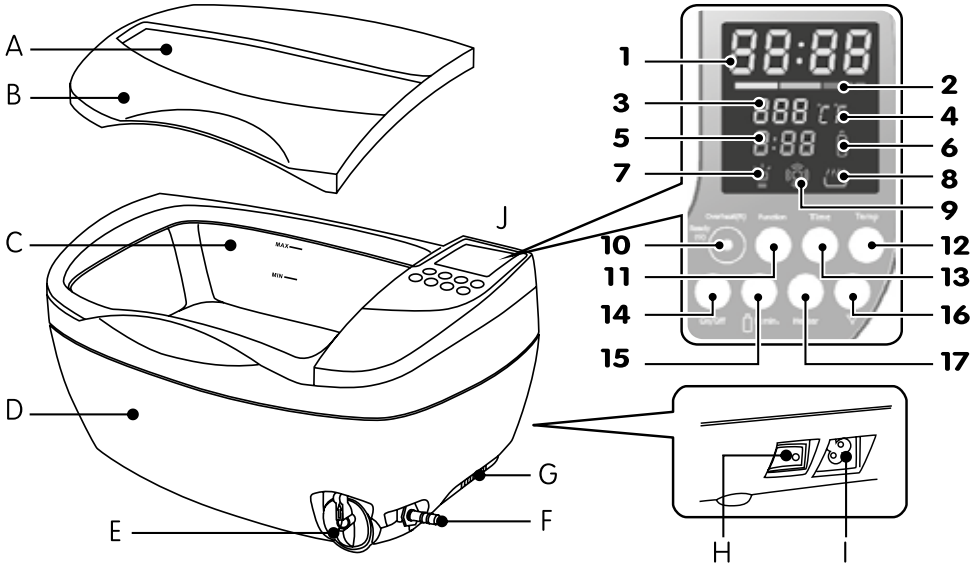


Terminals for relays and contactors

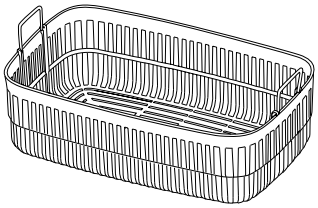
**LENSES, CRYSTALS**

Lenses, crystals

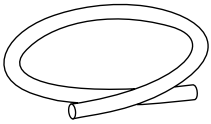
# PRODUCT DETAIL




**A.** View Window
**B.** Lid
**C.** Stainless Steel Tank
**D.** Housing
**E.** Drainage Tap
**F.** Drainage Pipe Fitting
**G.** Vent
**H.** Power Switch
**I.** Power Socket
**J.** Control Panel



**Plastic Basket**



**Hose**

**Power Cord**

# CONTROL PANEL AND OPERATIONS

1. 05:00 **– Digital LED Working Time Display.** It counts down after work is started.

2. **– Water temperature indicator** Solid green light indicates that the water temperature is 0-30% of the set temperature. Solid orange light indicates that the water temperature is 30-60% of the set temperature. Solid red light indicates that the water temperature is 60-90% of the set temperature. Flashing red light indicates that the water temperature is close to the set temperature. All lights on, indicate that the water temperature is at the set temperature (90-100%).

3. 060 **– Set Temperature Display.** Press Temp button to select one of the 5 set temperatures.
   → 40°C or 104°F → 45°C or 113°F → 50°C or 122°F → 55°C or 131°F → 60°C or 140°F →

4. °C °F **– °C or °F Indicator.**
   °C - Set temperature in °C. – °F - Set temperature in °F.

5. 1:40 **– Solution usage remaining time.** It counts down to show the remaining usage time (hour : minute) of the solution.

6. **– Solution Warning Light.** Once the Solution Usage Timer is set, the light will come up. The light will flash when the solution needs changing.

7. **– Degas Status.** Illuminated, the degas function is selected. Flashing, degassing is underway.

8. **– Heater Status.** Press Heater button, flashes, indicating the heater is turned on. Press Heater button again, dims, indicating the heater is turned off.

9. **– Normal Cleaning Status.** – Illuminated, normal cleaning is underway.

10. **Working Status.**
    Green - Ready (G): Normal working status, ready to use.
    Red - Overheat (R): Under overheat protection. 20 minutes or more of waiting time is needed for the light to change from red to green. Work can resume afterwards.

11. **Function Button.** Press function button, illuminates, indicating Degas function is selected. Press On/Off button to start degassing. will flash for 2 minutes, then the unit will return to the normal cleaning function. Pressing Function button before it ends will stop degassing. If additional degassing is needed after it ends, then press Function button again.

**Degas:** When cleaning heavily soiled or greasy items or silver, copper or brass items, chemical solutions need to be added into the water. The solution may form many small droplets and take a long time to dissolve in the water. Newly added water may generate many air bubbles on the tank walls. These will reduce the cleaning effect in the beginning phase of ultrasonic cleaning. Turning on the degas function will dissipate the droplets and the air bubbles, usually in 90 seconds, and improve cleaning efficiency.

12. **Temperature Set Button.** 5 set temperatures can be selected. Press Temp button to select the temperature in the following sequence:
    → 40°C or 104°F → 45°C or 113°F → 50°C or 122°F → 55°C or 131°F → 60°C or 140°F →

**13. Timer Set Button.** Press Time button, LED display shows 05:00.
Each pressing increases the time by 5 minutes.

**14. On/Off Button.** After powering on, the LED displays 05:00 which is the default time as shown in picture, and the unit is ready with the normal working status. Press On/Off button once and the cleaning starts. The cleaning stops when the timer counts down to 00:00. If the unit needs to be stopped before the timer runs out, press On/Off button.

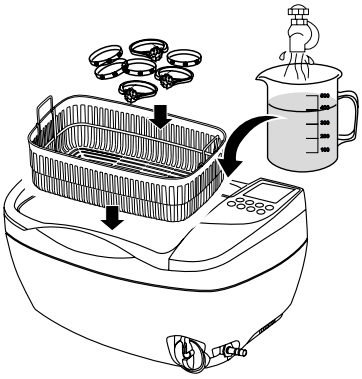
**15. Hours/Minutes – Solution Usage Timer Set Button.** Each time that button is pressed, the timer is increased by 20 minutes. For example, 1:20 indicates that the solution is set to be used for 1 hour and 20 minutes. The maximum time that can be set is 9 hours 59 minutes.

**16. ▼ - Decreasing Button.**
a. When Time is used, each pressing reduces the timer by 1 minute.
b. When Temp is used, each pressing reduces the set temperature down to the next level.
c. When h/min is used, each pressing reduces the solution set time by 20 minutes.

**17. Heater Button.** Pressing heater button, flashes, indicating the heater is turned on. To cancel heating, press heater button again, dims, indicating the heater is turned off.

When the water reaches the set temperature, the heater will turn off automatically.

# COMMON CLEANING METHODS



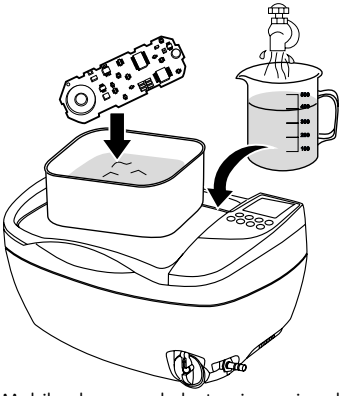
**REGULAR CLEANING**

Only tap water is needed.

**Suitable Locations:**
Metal decoration and jewellery makers, optical labs, biology / chemical labs, Medical instrument cleaning rooms, dental clinics, homes, speech therapy clinics, kindergartens/nursery schools.

**Cleaning Method:**
1. Add warm water to the cleaning tank to a level between "MIN" and "MAX" lines and above the area to be cleaned.
2. Put the items to be cleaned inside the basket and put the basket inside the tank.
3. Turn the power switch on. Press Time button to set the timer to 5 - 10 minutes. Press On/Off button to start cleaning.

**Notes on using the basket:**
1. The basket reduces the friction between the items and the tank, but a plastic basket absorbs about 30% of ultrasonic energy and reduces the cleaning effect.
2. During cleaning, dirt will come off like smoke and the water will become murky over time. When "smoke" stops coming, the cleaning is basically done.



## INDIRECT CLEANING

Put the items in a separate container. Use ultrasonic waves to penetrate the container to do the cleaning.

**Suitable Locations:** medical instrument sterilisation rooms, precision electrical parts manufacturers, watch and precision parts manufacturers, mobile phone and electronics service shops, large printing shops.

Different industries use different fluids inside the container:

1. Watch service shops - Watch oil (to prevent rust)
2. Medical instrument sterilisation – Special solution (cleaning prior to sterilization)
3. Precision electrical parts – Hexane (to dissolve grease, to evaporate quickly)
4. Mobile phone and electronic service shops - Pure alcohol (to evaporate quickly).
5. Printing shops – Acetone is often used (to dissolve ink)
6. Homes - Rubbing alcohol (to remove odor, to clean and to disinfect at the same time).

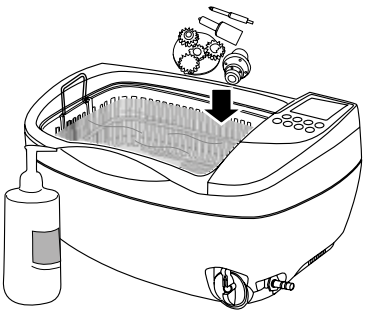
⚠ Avoid acetone from contacting the plastic housing to prevent corrosion. Use Indirect Cleaning and a glass or metal container for acetone.

**Cleaning Method:**

1. Put the item inside a container. Add proper fluid to submerge the area to be cleaned.
2. Place the container in the tank directly. Add water to a level between "MIN" and "MAX", do not overflow.
3. Turn the power switch on. Press Time button to set the timer to 10 minutes. Press On/Off button to start cleaning. Ultrasonic waves will penetrate the container and clean the items.

**Selection of container:**

1. Plastic containers – Plastics are soft and will absorb about 30% of ultrasound energy and reduce the cleaning effect.
2. Aluminum containers – Absorbs about 20% of ultrasonic energy.
3. Stainless steel containers – Absorbs about 8% of ultrasonic energy.



## ENHANCED CLEANING

Debris accumulated over a long period of time, greasy or heavily soiled.

**Suitable Locations:** metal processing and jewellery makers, hardware manufacturers, shooting clubs, homes, golf clubs, automotive repair shops.

**Cleaning Method:**

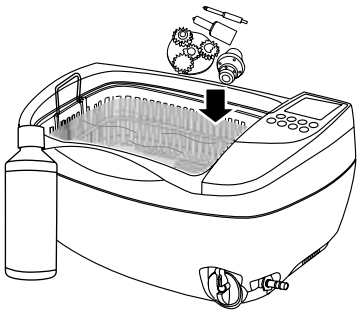
1. Large items can be put in the tank directly. Small items can be put in the basket then put in the tank. Do not put the items on top of each other to avoid rubbing during cleaning.
2. Add water to a level between "MIN" and "MAX" and above the area to be cleaned.
3. Add 50 ml (3 tablespoons) of dishwashing liquid.
4. Turn the power switch on. Press Temp button to set the water temperature to 45°C (113°F). Press Heater button to turn on the heater, flashes. Close the lid. LED lights up. When water reaches the set temperature, dims, indicating the heater is turned off.

Warm water and dishwashing liquid can soften grease and improve cleaning efficiency.

5. Press Time button to set the timer to 15 minutes. Press On/Off button to start cleaning. Grease will dissipate and appear to be like black smoke in the water.

6. When it stops, open the drainage valve to release the dirty water. Close the valve afterwards.

7. Clean the tank and add fresh water. Wash the items for another 3 minutes to remove the residual debris and the detergent.



**SPECAL CLEANING**

Silver, copper or brass items with oxidation which has darkened the items will need special cleaning.

**Suitable Locations:** silver, copper or brass product manufacturers, home, shooting clubs.

**Cleaning Method:** Put the items in the basket and then in the tank, add water to a level between "MIN" and "MAX" and above the area to be cleaned.

2. Add special solution (SeaClean2) that can remove silver or copper oxidation according to the ratio recommended (typically 1:10), Use special solutions according to the instructions for brass cartridges.

3. Turn the power switch on. Press Temp button to set the water temperature to 50°C (122°F). Press Heater button to turn on the heater, flashes. Close the lid. LED lights up indicating the percentage range of the set temperature being reached. When water reaches the set temperature, dims, indicating the heater is turned off.

The heater has dual protection. It will be turned off automatically after 50 minutes.

4. Press h/min button to set solution usage time. Each pressing increases the time by 20 minutes. Press ▼ button to reduce the time by 20 minutes each time. Common time is *0:40* or *1:00*. Refer to the instruction from the solution manufacturer.

5. Press Time button to set the timer to 15 minutes.

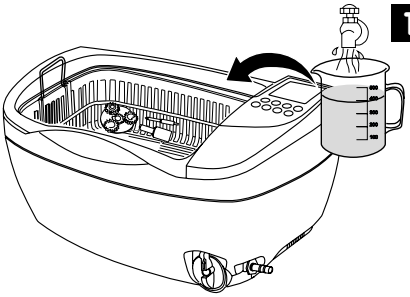
6. Press Function button to select the degas function. button illuminates. Press On/Off to start degassing. After 2 minutes it changes over to normal cleaning automatically.

7. When it is done, remove the basket and the items. Rinse the items with tap water or follow steps 6 and 7 in the **Enhanced Cleaning** section.

During cleaning, debris will come off the items like "smoke". Water will become murky. This method will remove silver or copper oxidation and debris in the decorating patterns and crevices and make the items like new again.

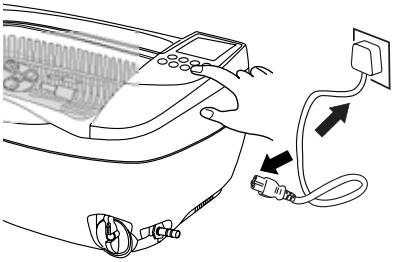
Do not use solution containing abrasive substances or strong corrosive chemical solution not recommended by the manufacturer or the supplier. The use of any fluid, such as Acids, Amonia or Alcohol, which can damage stainless steel or plastics should be avoided. The use of such solutions will invalidate your warranty unless you have prior written approval from JPL.

# OPERATING GUIDELINES



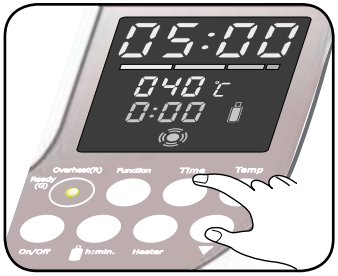
**1** Remove the lid. Put items in the basket then put them in the cleaning tank. Add water to a level between "MIN" and "MAX" and above the area to be cleaned.

⚠ If the unit is turned on without water, ultrasonic energy will not be absorbed. This model also has high power. Once on for over 15 seconds, it may damage the unit or severely reduce the life of the unit.



**2** Connect the power cord to an outlet and turn the switch on. LED display shows 05:00. This is the most common timer setting and working state. If the timer needs to be adjusted, press Time button and ▼ button. The timer can be set between 1 to 30 minutes. Common cleaning times are 5, 10 or 15 minutes.

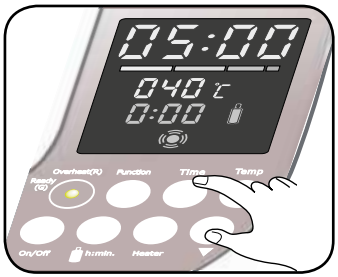
Prolonged cleaning time may result in:
a. Loosening of the screws if used.
b. Increasing pre-existing cracks.
c. Peeling of coating which was already separated.




**3** Press On/Off button to start cleaning. During cleaning, buzzing sound can be heard from the cleaning tank, indicating that the cleaning is underway. Closing the lid will reduce the noise level.

The digital timer will count down to show the remaining cleaning time. When it displays 00:00, the cleaning is done.

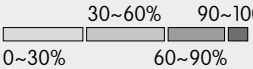
To stop cleaning at any time, press On/Off button. The unit is designed with overheating protection to avoid extended and continuous operation for too long. When the red light is on, the unit will not turn on even if it is forced to. The unit will be idled for about 20 minutes and can be restarted after the green light comes on.



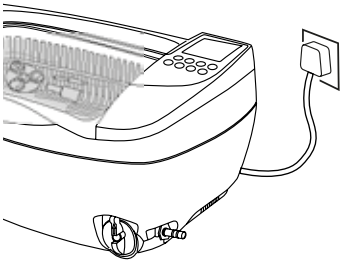

**4** Select one of the 4 cleaning methods recommended earlier.

**a.** When the heater is needed, press TEMP button to select one of the 5 preset temperatures. Press Heater button, flashes, indicating the heater is turned on. When the water reaches the set temperature, dims, indicating the heater is turned off.

To ensure safety, the unit is designed with dual protections. The heater will be turned off automatically if it has been running for 45 minutes.

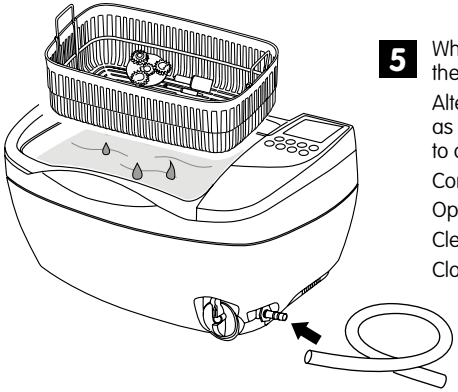



Thermometer lights up to indicate the percentage of the set temperature reached.



**b.** If solution is added, to speed up the mixing and to use less solution, use degas function.
Press TIME button to set the timer to 10 minutes then press Function button, illuminates.
Press On/Off to start degassing. It changes over to normal cleaning automatically after 90 seconds.

**c.** When debris "smoke" is no longer visible, cleaning is done. If additional cleaning is needed, reset the timer and repeat the steps above.



**5** When cleaning is completed, switch off the power, open the lid and retrieve the basket and the items.

Alternatively, raise and suspend the basket above water as illustrated in the Usage Guide for Accessories section to drain water.

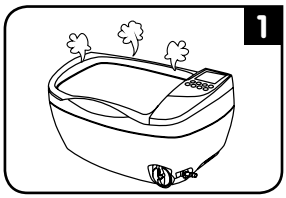
Connect the hose to the drainage pipe as shown.

Open the drainage valve to drain the dirty water.

Clean and wipe the tank dry.

Close the drainage valve.

# CARE AND MAINTENANCE

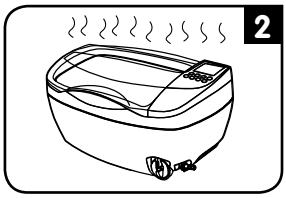



**Do not turn on the unit without water in the tank.**

Even though the unit is designed with multiple protections, if it is turned on for over 30 seconds without water in the tank, it may damage the unit or severely reduce the life of the unit.

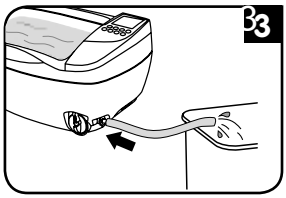
If heating over 3 minutes, it will damage the heater.

⚠ This unit is equipped with a thermal cutoff. If the cleaning function is turned on without water in the tank, the temperature will rise continuously. The thermal cutoff will be actuated after approximately 15 minutes respectively to ensure safety. The unit will be disabled until it is repaired.



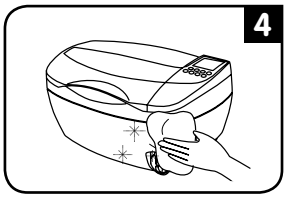

**Do not run the unit for extended time or continuously.**

The unit is designed with overheat protection. If the unit has been running for 45 minutes, it is recommended to stop the unit for about 20 minutes to prolong the life of the unit.



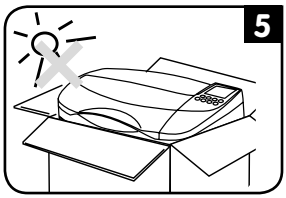

**Do not keep water in the cleaning tank for a long time.**

After cleaning is completed, open the drainage valve to drain the dirty water. Clean and wipe the tank dry.




**Do not spray water over the housing.**

Use a towel to wipe the tank and the housing dry.




**Do not expose the unit under direct sunshine for a long time.**

Keep the unit in a dry, cool and ventilated area.

# 3 LEVEL CLEAN PLAN

**Lightly stained items** 1
Use warm water and a few drops of washing up liquid

**General staining or light tarnishing** 2
Use warm water (45-60°) and SeaClean2 Double Concentrate

**Heavily stained or tarnished metals** 3
Use warm water (45-60°) and add up to 50% more SeaClean2

**Use the appropriate level for your items:**

**Jewellery**
Necklaces, rings, bracelets etc.

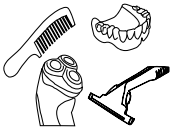
1 **2** 3

⚠ Porous stones such as pearls etc. should not be immersed. Use the optional watch stand to hold the stones out of the water. If in doubt please refer to our website: www.jamesproducts.co.uk for further details.

**Watches and glasses / sunglasses**
Waterproof wristwatches, watch chains, glasses, sunglasses etc.

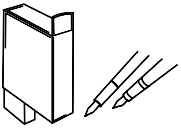
**1** 2 3

⚠ Watches should be fully waterproof (30m or more). For watches that are not waterproof, the Watch Stand can be used to keep the watch face out of the water. Please ensure that spectacle lenses are facing upwards and free from any contact of any other object including the base of the tank. The coating on some spectacle lenses can exhibit hairline cracking during ultrasonic cleaning. If in doubt check with your optician or with James Products Limited before cleaning such items.



**Toiletry items**
Electric toothbrush heads, electric shaver heads, razor blades, combs, toothbrushes, dentures etc.
Ensure that all items are waterproof and non-porous.

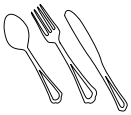
1 **2** 3



**Office equipment**
Printer heads, printer cartridges, fountain pen nibs, wax or rubber stamps etc.

1 **2** 3

**Tableware / Cutlery**
Wood or bone handled tableware / cutlery should not be immersed. Only all-metal or plastic tableware should be cleaned.



1 **2** 3

**Metal items** (some metals need enhanced cleaning - see p8)
Metal cutlery (knives/forks, etc.), old coins, metal badges, valves, machine nozzles, small metal parts, etc.
For best results use SeaClean2 concentrate as directed.

1 **2** **3**

⚠ Any unfirm or inlaid item may become loose. Items that are easy to be discoloured are not recommended for ultrasonic cleaning. eg: textiles, leather products, woodware etc.
DO NOT put any objects that are porous (e.g. tortoiseshell or hawksbill spectacle frames) or not waterproof (e.g. mobile phones) in the tank for cleaning as damage may occur.

# SPECIFICATIONS

| | | |
|---|---|---|
| **Description** | Professional Ultrasonic Cleaner | |
| **Model** | ULTRA 8060 | |
| **Tank Capacity** | 3000 ml | Max. Fluid 2500 ml<br>Min. Fluid 1500 ml |
| **Tank Size** | 25.0 x 17.4 x 7.8 cm | |
| **Power Supply** | 150 W (AC 220~240V 50/60Hz) | |
| **Digital Timer Settings** | 1 to 30-minute full range timer | |
| **Drainage** | Drainage valve | |
| **Ultrasonic Frequency** | 36,000 Hz | |
| **Tank Material** | Stainless Steel SUS304 | |
| **Housing Material** | ABS | |
| **Net Weight** | 3.6 kg | |
| **Gross Weight** | 4.1 kg | |
| **Unit Size** | 38.5 x 23.4 x 19.3 cm | |

# GUARANTEE

Your Ultrasonic Cleaner has been carefully manufactured and 100% tested using high quality assured components. It is guaranteed against faulty workmanship and materials for a period of 12 months from the date of purchase. In the unlikely event that a failure should occur, the unit will be repaired or replaced* free of charge when returned, postage paid, to the address below within the guarantee period. This guarantee DOES NOT include damage or failure resulting from misuse, damage in transit or failure by the user to comply with the Dos and Don'ts (this list is not exhaustive).

Your statutory rights under common law are in no way affected by this guarantee.

**James Products Ltd,**
Unit 1, Church Close Business Park,
Todber, Sturminster Newton,
Dorset DT10 1JH,
England

Tel: +44 (0)1258 820100
Fax: +44 (0)1258 820550

When returning your unit please call our Returns Department on +44 (0)1258 822516 for a RMA (Returns Materials Authorisation) number. Please return your unit in its original packaging along with a covering letter stating when and where you purchased the unit and a description of the problem encountered. If the unit is within the guarantee period please enclose proof of purchase.

**LIMITED WARRANTY**

Consequential and incidental damages, including without limitation, loss of property and those arising from breach of any express or implied warranty, are not the responsibility of James Products Limited and to the extent permitted by law, are excluded.

In accordance with its policy of progressive product design, James Products Ltd reserves the right to change product specifications without prior notice.

*Repair or replacement is at the discretion of the manufacturer.

James PRODUCTS

**www.jamesproducts.co.uk**

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